NEWEST NOTES OF SCIENCE

The best beet root yields about 12 per driven sleigh when snow is on the weights five times greater and to carry Children brought upon goats' milk

a highway will pull a 32-ton canal boat. in the industry, in the order named. No receptacle has ever been made strong enough to resist the freezing respectively of gold. copper and iron, ber of deaths and 506 in the number power of water. At the present rate of increase the

been erected on precipitous Bass Rock, spot on the planet Jupiter, which up Vesuvius, with a gradient of 63 feet in the Firth of Forth.

feet up on Mount Rosa, in Italy. penetrating 83 strata of coal.

Nitrate of soda, sulphate of ammo nia and cotton seed meal are the three fertilizers most rich in nitrogen. Cotton mittens, much used by women when handling plants, can be water- said to yield about a pound of nitrogen by passing it through concrete tanks, proofed by dipping them in melted par- to the acre per year of average snow- where it is treated by strong electric

The average cost for fuel for a rail- turning a handle from the chauffeur's meters high, but over 20 centimeters in road train is 10 cents a mile, and the seat. average fireman burns \$2,500 worth a

the Pacific coast. A pint of crude carbolic acid mixed | Experiments in Europe show that suddenly when necessary.

gold and 60,000,000 ounces of silver are solutely safe.

A Pittsburg man has invented a ma chine by which he claims from 1,000 pounds to a ton of coal can be mined

and loaded into a car in a minute. A monument will be erected near Titusville, Pa., in honor of the man who drilled the first oil well there fifty years ago next August.

Germany's first electric ferryboat re-cently was launched at Dulsburg. It has a capacity for 645 passengers, besides herses and vehicles

British inventors have succeeded in who knew Sir Philip Morland, had inhardening tantalum by an oxygen pro-|formed him, in response to guarded incess, which adds to its strength without adding to its brittleness.

By a vote of 248 to 217 the members of the Royal Geographical society of required his signature. England favored the admission of women to membership recently.

A company of 100 picked soldiers from the German army recently in 40 minutes built a bridge of steel boats and plates 108 feet long by 10 wide. A single London gas company lost by

leakage last year enough gas to fill opinion? The price is high, certainly, 300 balloons such as Count Zeppelin but, then, picture the joy of it-the in his recent record-breaking

The tobacco leaf normally contains ecosiderable quantities of citric and What did the postoffice make it into: malic acid, the former the acid of the "EVELYN." lemon and the latter the acid of the The nation's production of abrasive garnet in 1907, 7,058 short tons, was the in solitary glory. What could it be?

greatest on record, exceeding the previous year's production by 52 per cent. In the manufacture of coke in this country last year scarcely more than an eighth was made in retort ovens, so that the by-products could be re-

The construction of a canal for large name for D. T.'s, sir?" barges between Stettin and Berlin has been begun by the German govern-It is planned to have it completed by 1912. All the domestic pumice marketed in

the United States comes from Harlan reposed in the safe. Green, it ultiand Lincoln counties. Nebraska, though mately transpired, solemnly opened the several other western states have de- safe in the presence of the housekeeper The world-famous Stracker collection turbing any of the other contents, and

of butterflies and moths, including handed the key to the butler, who nearly 100,000 specimens, has been pur- placed it in the silver pantry. chased by the Field Museum of Natural History at Chicago. In the government tests of tobacco one of the greatest shocks of his life

a mechanical smoker is used which when he examined the contents—a draws the smoke through flasks of quantity of old clothing, some worn sulphuric acid to absorb the nicotine, boots, a ball of twine, a bed cover-which may then be measured. Two German scientists have had re-ters, and a variety of odds and ends

markable success in the prevention of that would have found no corner in a bacterial diseases by the use of a lirespectable rag shop. quid prepared by the addition of caustic soda to Javelle water. The German Academy of Science at Berlin will receive 30,000,000 marks "What a treasure! The Clerkenwell (about \$7,000,000) under the will of Herr suit, I suppose, and a woman's skirt

Samson, the Berlin banker who died and blouse. Old-timers, too, by their from two years spent in the north of Alaska has reported the discovery of browed and resentful, was reading a sale should be given mountains heretofore unknown, from letter which reached his lodgings two ing, and not typed."

10,000 to 12,000 feet high. A pair of French army dogs have ope bearing the ominous initials—O. H. drawn light ambulances with loads of M. S. 160 pounds each for 375 miles without a breakdown, showing their avail- station. ability for such purposes in time of

A Brooklyn man has secured a patm. Yours truly. ent on a spiked driving wheel and runners to replace the ordinary wheels to convert an automobile into a motor-

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why pay rent for an ordinary cot-tage when you can own an artistic bungalow and pay for it monthly the same as rent? If you own a lot we will build, design and finance the entire transaction and you can pay for it monthly instead of paying rent. We will build for you on our own lot on easy payments. Think how many homes you have presented to your homes you have presented to your landlord. Now is the time. Declare your independence. Own your home. Phones: Bell, 1387; residence, 1266.

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ground. The marble output of the United are said to be immune from tubercu- States in 1907 was valued at \$7,837,685, slight gain over the preceding year. A force that will move a ton along Vermont, New York and Georgia led States in 1907 cost 3,125 human lives,

Of three wires of the same size, made the second a load of 302 population of the United States in 1919 pounds and the third one of 549 pounds. the Mendal, in the Tyrol, which has a will be 100,000,000.

Camille Flammarion, the French as-gradient of 64 feet in the 100. Until At a cost of \$200,000 a fog horn has tronomer, is of the opinion that a dark this was completed recently the road

changes its position, is an island of in 100, held the record The highest telephone station in the scoria, floating about on the molten world will soon be in operation 15,217 surface. By kneading together ten parts of The deepest hole in the world, in Si-lesia, has reached a depth of 7,600 feet, five of perfectly dry pulverized clay in ed nearly the whole amount on return-

inegar spirit, a cement is formed that ing it to the office of the company ownis both fire and waterproof. Experiments by the Canadian government lend support to the old theory of germs of animal and vegetable life in farmers that snow is a fertilizer. It is its sewage at a cost of 50 cents a day

Stockholm, Christiania, Berlin and London, in the order named, have the lowest death rates among the Euroglass windbreaks of automobiles by tory at Florence. The tube is nearly 15

A spring in an imperial radium mine used. at Joachimsthal contains so much ra- A recently patented roller skate car-Argentine ant, which has dium that the Austrian government ries a fifth wheel under the toe, slightwrought havoc with the Louisiana sug- will establish baths there so that suf- ly raised above the ground, and revolvar plantations, has now appeared on ferers from certain diseases may obtain ing transversely, to enable the skater

with a gallon of kerosene makes a balloons traveling at heights of from An Englishman has patented a device cheap and excellent spray for poultry 600 to 2,000 yards can be hit with a to make life in submarines safer. rifle only once in six times, while at Should a boat fail to ascend, a plat-In round numbers 2,500,600 ounces of an elevation of 3,000 yards they are ab- form may be released which will rise

produced in the United States each Coal ashes are being washed in tubes for conveying air and liquid nour-spaces in Pennsylvania mines from ishment to the imprisoned.

Continued from Page 1.

The other note was from Evelyn. It

"In the hurry of your departure yes-

And, again, came another message: "I referred to Blue Atom, of course

Blue Atom was assuming spectra

He strolled into the station, and en-

tered into conversation with a platform

arrived. It was locked, and the key

and butler, locked it again without dis-

In the solitude of his room, Grenier

He burst into a fit of hysterical

"Ye gods and little fishes!" he cried.

At that moment Jocky Mason, beetle-

hours before his arrival, in an envel-

officials looked after.
"What's up now?" he muttered.

contents of a small bottle in his bedroom, while he scanned the columns

of the local evening papers for any

reference to a "Seaside Mystery" on

There was none. Anson's body had

Before going to bed, he wound Philip's watch. He examined it now with

greater interest than he had bestowed

Although silver, it appeared to be a

good one. He opened the case to examine the works. Inside there was an

"Presented to Philip Anson, aged 15

years, by the officers and men of the

Whitechapel division of the Metropol

itan police as a token of their admiration for his bravery in assisting to

Beneath was the date of Mason's

"Where was I ten years ago?" he

He looked back through the soiled

eaves of a sordid record, and found that he was then acting in a melodrama entitled "The Wages of Sin."

And the wages of sin is death! The

drama insisted on the full measure of

Biblical accuracy. Altogether, Grenier-lay down to rest under unenviable con-

He dreamed that he was falling down precipices, and striking sheets of blue water with appalling splashes. Each time he was awakened by the shock.

But he was a hardy rogue where conscience was concerned, and

arrest a notorious burglar.'

"T. BRADLEY, Inspector."

burst the lock. The rascal received

"EVELYN."

ation of her telegram.

only one in the world!

morning.

laughter.

part meant arrest.

knowledge it at once."

the Yorkshire coast.

on it hitherto.

inscription

not been recovered yet.

swore himself to sleep again. Rest he must have. He must arise with steady nead and clear brain.

which the coal has been removed. As the water recedes they form a solid

mass, strong enough to hold up the

A new flying machine invented by a Russian military engineer is said to lift

them at higher speed than the aero-

planes of similar power owned by oth-

Coal mine accidents in the United

besides the injury of 5,306 more per-

sons, an increase of 1,033 in the num-

The steepest railroad in the world is

Berlin's railroad stations are to h fitted with coin-in-the-slot umbrella

Santa Monica, Cal., claims to kill the

diamter. Olive oil instead of mercury is

to execute fancy figures and to stop

to the top of the water, carrying three

earth and prevent cave-ins.

er European nations.

ing the machines.

currents at a low voltage.

The letter was from Mr. Abingdon. It briefly acknowledged his telegram, stated that a man in the Athenaeum. quiries, that the baronet was exceedsheet chronicled his arrival at York. ingly well off, and called attention to some important leases inclosed which

The King of Diamonds

was tender and loving, and contained a reference that added to the mystific-Please meet wishes expressed in let-

terday," she wrote, "we forgot to mention Blue Atom. What is your n leading strings.

> Atom must wait until my return." e dealt with subsequently.

confusion worse confounded: "Delay is impossible. The man has put off the duchess two days al-

"By the way," he said, casually, blue atom. He must do something to the scaffold? He could not say. He desperate; begin his plan of alienation would not feel safe until Philip Anson blue atom. He sooner than he intended. He answered: was a myth, and Victor Grenier a real-Grenier gave it up, and resolved to postpone a decision until the next ther. Going to Leeds today. Letters here as usual. By a late train Philip's portmanteau

> the money stolen from his pockets. At the hotel there was only one letter and no telegrams.

The London bankers write: is twelve thousand four hundred and of a Cagliostro. ten pounds nine shillings one penny. Your securities in our possession fered, the total fixed in Grenier's origamount to a net value at today's price of about nine hundred and twenty thousand pounds, including two hun-sand pounds, and he firmly decided not dred and fifty thousand pounds Consols to go beyond that amount. His letter

"Sir-Kindly make it convenient to out demur; he could control an enor- goodly supply of wines and spirits. attend here tomorrow evening at 8 p. mous sum without question; these were the entrancing certainties which daz- might be helpful to sham a slight dezled his eyes for a time. The following day it was Mason's duty to report himself under his tic-

writing on Evelyn's letter was now Anyway, Grenier was right. This thrice precious. He hurriedly scruti- not been cast forth naked. It was a gives me a cast-iron alibi. I'll ac- nized it, and at once commenced to blunder not to dress him, to provide practice the words.

He was early astir. His first act was to send for the Yorkshire morning papers. They contained no news of Philip Anson dead, but the local

Then he signed the leases, dispatched

ter. "Surely," he reflected, "Abingdon will and fifty thousand pounds, and place of give another thought to my pro- the same to my credit."

Kindly self collisis value of united at the be bungled, so he must attend to each part of the undertaking himself, short the same to my credit."

Kindly self collisis value of united at the undertaking himself, short of using a bludgeon. not give another thought to my pro- the same to my credit." ceedings. Philip Anson is not a boy

He wired to Evelyn: Here was a way out. Whatever that wretched speck of color meant, it could tions

But Evelyn's prompt reply only made

"By the way, ne said, casually, have you ever heard of anything riod of time were mixed up with a sign him to Portland again—perchance "Too busy to attend to matter fur- ity, with many thousands in the bank.

And to Leeds he went. Residence in York was a fever-a constant fret. In letters would easily establish the fact Leeds he was removed from the arena. that he was unable to obtain a bigger He passed the afternoon and evening haul than, say, fifty thousand pounds. in roaming the streets, consumed with a flery desire to be doing, daring, braving difficulties.

But he must wait at least another day before he could lay hands on any portion of Philip Anson's wealth save

yesterday. Your cash balance at date ing adroitness, the superb impudence

There was joy, intoxicating almost to

It was from the Southwark police danger and delay.

millionaire should keep his current account so low, and the concluding paraket-of-leave, but it was quite unusual

That was all the ly presented itself. The memorandum in Philip's" hand- North sea.

"Documents forwarded this morning. ter in the fewest words possible:

"Sorry for misunderstanding. Blue vorably with the original in his pos-

With this missive committed irrecoverable to the care of his majesty's a trifle reserved, with an impulse to Philip Anson's memory would be poismails, Victor Grenier's spirits rose. Now indeed he was in the whirlpool. Would he emerge high and dry in the El Dorado of gilded vice which he was planning plausible lies to keep Mason out of his fair share of the plunder. A few more forged And what did Mason want with twenty-five thousand pounds? He was a gnarled man, with crude tastes. Twenty, fifteen, ten thousand would be ample for his wants. The sooner he drank

himself to death the better. shrank in dimensions. The murder was a mere affair of a vengeful blow, but this steady sucking of the million-"We beg to acknowledge yours of aire's riches required finesse, a dash-

But if his confederate's interests sufinal scheme in nowise became affected. He meant to have a hundred thou-

"Kindly note that instructions for thirds of the available sum he would sale should be given in your handwrit- not give any grounds for suspicion or personal inquiry. Yet he would shirk nothing. Mr. Abmadness, in this communication, but it ingdon and Miss Atherley must be was not unleavened by the elements of avoided at all events; others he would face blithely. He took care to have

If any one sought an interview it gree of intexication. The difference be-But it was horribly annoying that a tween Philip drunk and Philip sober would then be accounted for readily. But rest-that was denied him.

He wished now that Philip Anson had

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loop. In "Lady M.," too, he had the

He copied it again and again, until

With this missive committed irrecov-

With each fresh cigar Mason's moiety

and blouse. Old-timers, too, by their style. His mother's, I expect. He must have been fond of his mother."

At that more dead not all the following the fol

His signature had been accepted with- ever on the table in his sitting room a

for the police to give a preliminary graph held a bogey, not wholly unforewarning in this respect. Failure on his seen, but looming large when it actual-surprise; quite another to forget that disfigured corpse swirling about in the

him with means of identification with His accomplice, hoping to obtain "Devonshire" and "Sharpe" gave him some unknown Smith or Jodes. sleep from champagne, consumed the the capitals for "Dear Sirs." He was When he closed his eyes he could see

at a loss for a capital "C," but he a shadowy form wavering helplessly in she wrote, "so the Blue Atom incident was excellent. The banker would see it. A few printed lines carry great weight in such matters.

Then he signed the leases, dispatched the sum of them is a capital to both a

them in a typewritten envelope and foundation of the "£" to precede the ting the attack on Philip he had taxed this ingenuity for weeks to discover requisite figures. Soon he framed a letsome means where he need not become "Yours of today's date received. Mason's actual helper. He rejected clime, and began to ask himself why project after project. The thing might Mr. Abingdon had not written. The example fifty thousand pounds and place be bungled, so he must attend to each magistrate's reticence annoyed him. A

He slept again and dreamed of long irritating; it savored of doubt, and it was written freely and carelessly. flights through space pursued by de-doubt was the one phase of thought mons. How he longed for day. How he wished to keep out of Mr. Abing-slowly the hours passed after dawn, don's mind at that moment. ing a day, according to his calculawith their columns of emptiness for his telegrams, while a bank had ac-

tears concealed in it.

As for Evelyn, she mistrusted even cepted his signature without reservaoned in her heart long before she real-"I asked mother for fifty pounds," ized that he was dead.

He consigned Blue Atom to a sultry

ents advertised free.

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